

Table 1--Mineral deposits and occurrences of the Chandalar quadrangle

No. No.	Name(s) ¹	Location	Resource(s) ²	Type of deposit	Development category ³	Brief description	References ⁴	No. No.	Name(s) ¹	Location	Resource(s) ²	Type of deposit	Development category ³	Brief description	References ⁴	No. No.	Name(s) ¹	Location	Resource(s) ²	Type of deposit	Development category ³	Brief description	References ⁴								
1	(Anderson Creek)	T. 33 N., R. 5 W.	Cu	Vein	O	Malachite and chalcocite in quartz veins.	J.R. Graham (oral commun., 1977)	25	Gaylor	T. 35 N., R. 5 W.	Cu, Pb, Ag, Zn	Contact metamorphic	P/A	Copper sulfide minerals and/or malachite-sphalerite and galena in quartz veins. Spinel and galena occur in association with quartz veins.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)	47	Mikado-Dien Garter, Crystal, Kilkis, Englewood, and Mineral Hill	T. 31 N., R. 5 W.	Ag, (Sb, Cu, Pb, Zn)	Vein	N	Starry dipping (80° E) auriferous quartz vein as much as 2 m thick exposed for over 900 m along a 22-km trend. Numerous quartz veins with minor sulfides and visible gold. Assays of ore shoots range from 40 to 100 g/t gold. A shaft was drilled in 1969 to 1973 included a 60-m shaft and a 100-m level. A 100-m level was added in 1957 to 1960 when the mine was reopened. Assays of ore shoots range from 40 to 100 g/t gold done with Office of Minerals Exploration assistance. Total production through 1973 was 1,300 kg of gold at an average grade of 40 g/t gold. Active mining stopped in 1973.	Hadden (1913, p. 112-115); Berg and Reiser (1967); Schatz (1970); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)	68	Snow	T. 31 N., R. 3 W.	Ag, (Sb, Cu, Pb, Zn)	Vein	N	Quartz veins at Summit Mine assayed at 100 g/t gold in 1913. Workings included a 100-m deep shaft and a 22-m level on the surface. About 0.5 to 1.0 metric tons of gold were recovered.	McLeod (1913, p. 113-115); Berg and Reiser (1967); Schatz (1970); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)
2	Arasine	T. 33 N., R. 5 W.	As, Au	Vein?	P/A	Block of six lode claims staked in 1975.	Reed (1958, p. 41-44); ADGGS	26	(Geron Creek)	T. 33 N., R. 5 W.	Mo, Cu	Porphyry	P/A	Dissolved polyhalite associated with quartz veins and intergrown with sulfide minerals. Glaucite staked in 1975 and 1976.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)	48	Mikado-Dien Garter, Crystal, Kilkis, Englewood, and Mineral Hill	T. 31 N., R. 3 W.	Ag, (Sb, Cu, Pb, Zn)	Vein	N	Starry dipping (80° E) auriferous quartz vein as much as 2 m thick exposed for over 900 m along a 22-km trend. Numerous quartz veins with minor sulfides and visible gold. Assays of ore shoots range from 40 to 100 g/t gold. A shaft was drilled in 1969 to 1973 included a 60-m shaft and a 100-m level. A 100-m level was added in 1957 to 1960 when the mine was reopened. Assays of ore shoots range from 40 to 100 g/t gold done with Office of Minerals Exploration assistance. Total production through 1973 was 1,300 kg of gold at an average grade of 40 g/t gold. Active mining stopped in 1973.	Hadden (1913, p. 112-115); Berg and Reiser (1967); Schatz (1970); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)	69	Steph	T. 35 N., R. 5 W.	Co, Ag	Vein	P/A	Malachite, ascutite, and tennantite in quartz veins. Claims staked in 1975.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)
3	(Barries River) (also Garnet Creek)	T. 32 N., R. 8 W.	Au	Placer	N	Drift mining on tributaries of Bettles River produced 3 g of gold per meter ² of bedrock between 1910 and 1920. Placer claims located as 1940.	Reed (1958, p. 151-152); ADGGS	27	Ginger	T. 33 N., R. 8 W.	Cu	Contact metamorphic	P/A	Copper sulfide minerals and/or malachite-sphalerite and galena in quartz veins. Spinel and galena occur in association with quartz veins.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; R.C. Cobb (written commun., 1977)	70	(Tobin Creek)	T. 31 N., R. 3 W.	As, (Mo)	Placer	N	No data available. One location that has reported activity in 1950 to 1960. Concentrates include pyrite, magnetite, chalcopyrite, scheelite, rutile, arsenopyrite, chalcocite, and galena. Gold, pyrite, magnetite, rutile, and galena.	Reed (1958, p. 11); Cobb (1973); Schatz (1970); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)								
4	Bibben	T. 35 N., R. 5 W.	Cu	Vein	P/A	Malachite and chalcocite in quartz veins. Claims staked in 1975 and 1976.	ADGGS; J.R. Graham (oral commun., 1977)	28	(Geron Creek)	T. 33 N., R. 5 W.	Mo, Cu	Porphyry	P/A	Dissolved polyhalite associated with quartz veins and intergrown with sulfide minerals. Glaucite staked in 1975 and 1976.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)	49	(Mule Creek)	T. 35 N., R. 8 W.	Co, Zn, Ag	Contact metamorphic	P/A	Chalcocite, sphalerite, and minor galena in quartz veins. Claims staked in 1975 and 1976.	Reed (1958, p. 102-103); Hadden (1913, p. 104-105); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)	71	(Trembley Creek)	T. 36 N., R. 10 W.	Au	Placer	P	Two placers claimed in 1963; no reported activity since.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)
5	(Big Creek) (also Big Betty's Creek) (Guich)	T. 31 N., R. 3 W.	Au, Ag, (Mo)	Placer	N/A	Gold production from 1910 to 1920 estimated as high as 440,000 g of which two-thirds was after 1920. Average grain size of gold is 1 mm with nuggets up to 1 mm.	Reed (1958, p. 11); Cobb (1973); Schatz (1970); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; R.C. Cobb (written commun., 1977)	29	(Granite Creek)	T. 25 N., R. 11 W.	Au	Placer	P/A	Five claims staked in 1967; suction dredge work in 1969.	Reed (1958, p. 49); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	50	(Myrtle Creek)	T. 28 N., R. 11 W.	Au	Placer	N	One of the biggest gold producers in the Chandalar district. Production of 214,000 g from 1900 through 1969 from stream gravel and alluvium. Deep stream gravel and bedrock gravel.	Reed (1958, p. 49); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; R.C. Cobb (written commun., 1977)	72	Venus-Victor-Eva	Tps. 22, 33 N., K. 8 W.	Co, (Mo)	Porphyry copper	P/A	Disseminated chalcocite mineralization in quartz veins. Intercalated with pyrite and schist. Copper grades 0.1 percent to 0.3 percent over width up to 30 m in mineralized zones. Gold production from 1910 to 1920.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; R.C. Cobb (written commun., 1977)
6	(Big Jim Creek, trib. District River)	T. 35 N., R. 11 W.	Cu, Pb	Coating	O	Galena and copper sulfides and/or malachite-sphalerite in quartz veins.	Brough and Reiser (1964)	30	(Gus Creek)	T. 32 N., R. 8 W.	As?	Placer	P	Prospects said to have been found.	Reed (1958, p. 46); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	51	(Howard Creek)	T. 30 N., R. 11 W.	Co, Pb, Ni	Contact metamorphic	O	Chalcocite, sphalerite, and minor galena in quartz veins. Claims staked in 1975 and 1976.	Schmidt (1964); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)	73	(West Fork)	T. 27 N., R. 5 W.	Co	Volcanogenic	O	Copper minerals in volcanic rocks.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)
7	(Big Jim Creek, trib. Toklat River)	T. 31 N., R. 7 W.	Au, (Cu)	Placer	M	Small-scale placer mining for gold; some native copper nuggets found.	Reed (1958, p. 49)	31	(Horse Creek)	T. 30 N., R. 6 W.	Cu	Coating	O	Copper sulfides and/or malachite-sphalerite and minor galena in quartz veins. Gold, pyrite, magnetite, and galena.	Martin (1925, p. 219-260); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	74	(Willow Creek)	T. 33 N., R. 6 W.	Au, (Zn)	Placer	P	Two placers claimed in 1963; no reported activity since.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)								
8	(Big Joe Creek)	T. 31 N., R. 3 W.	Au	Vein	N	Gold in quartz vein in quartz-mica schist.	Reed (1958, p. 49)	32	(Howard Creek)	T. 30 N., R. 11 W.	Co, Pb, Ni	Placer	P	Prospects said to have been found.	Reed (1958, p. 46); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	75	(Trembley Creek)	T. 36 N., R. 10 W.	Au	Placer	P	Reports of prospects for placers in early days (c. 1910). One determined to be alluvium with scattered quartz and garnet.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)								
9	(Big Squaw Creek) (also Squaw Creek)	T. 32 N., R. 3 W.	Au, Ag, (Mo, Pb)	Placer	N	Replaced preglacial placers contain galena, pyrite, chalcocite, and minor quartz.	Reed (1958, p. 49-50); Martin (1925, p. 219-260); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	33	(Hurricane-Diane-Luna)	T. 34 N., R. 7 W.	Co	Contact metamorphic	P/A	Small amounts of copper mineralization confined entirely to talc occurrences. Claims staked in the vicinity from 1967 through 1973.	Martin (1913, p. 107-108); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	76	(North Fork East Fork Chaladair River)	T. 33 N., R. 3 E.	Co, Zn	Stratabound?	P/A	Large-scale mineralization in the North Fork East Fork Chaladair River. One claim staked in 1967 and 1970.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; R.C. Cobb (written commun., 1977)								
10	Bob	T. 32 N., R. 5 W.	Pb, Zn, Ag	Contact metamorphic	P/A	Galena and sphalerite with silver in quartz veins associated with limestone. Claims staked in 1975.	ADGGS; J.R. Graham (oral commun., 1977)	34	(Jim-Montana)	T. 35 N., R. 6 W.	Co, Zn, (Pb)	Placer	P	Five claims staked in 1967; suction dredge work in 1969.	Reed (1958, p. 46); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	77	(Willow Creek)	T. 36 N., R. 6 W.	Au	Placer	P	Reports of prospects for placers in early days (c. 1910). One determined to be alluvium with scattered quartz and garnet.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS; J.R. Graham (oral commun., 1977)								
11	(Bore Gulch) (also Bear Gulch)	T. 31 N., R. 9 W.	As?	Placer	P	Prospect shafts failed to find pay after reported gold discovery in 1901.	Reed (1958, p. 46)	35	(Kalabukh Creek)	T. 33 N., R. 10 W.	Au	Placer	P	Shafts failed to find pay after reported gold discovery in 1901.	Reed (1958, p. 46); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	78	(Kashua Creek)	T. 34 N., R. 7 W.	Co	Coating	P/A	Small amounts of copper mineralization found entirely to talc occurrences. Claims staked in the vicinity from 1967 through 1973.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS								
12	(Booulder Creek)	T. 28 N., R. 10 W.	Au	Placer	P	Claims staked in 1969 and prospected as recently as 1975.	ADGGS	36	Kelly	T. 32 N., R. 3 W.	Co, Pb, Mo	Placer	P	Prospects found in 1937.	Reed (1958, p. 41-42); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	79	(Linda Creek)	T. 31 N., R. 7 W.	Au	Placer	P	Good prospects reported in early days (c. 1910).	Reed (1958, p. 58); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS								
13	(Boree Creek) (also Charnock Creek)	T. 31 N., R. 8 W.	Au	Placer	P	Prospects found in 1937.	Reed (1958, p. 41-42); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	80	(Lutuivik Creek)	T. 36 N., R. 9 W.	Au	Placer	P	Claims staked in 1976 through 1978.	Reed (1958, p. 58); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	81	(Odeek Creek)	T. 31 N., R. 11 W.	Au	Placer	P	Good prospects reported in early days.	Reed (1958, p. 58); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS								
14	(California Creek) (also Charnock Creek) (Wakopuk Creek)	T. 31 N., R. 9 W.	Au	Placer	N	From discovery in 1901 through 1909, about 4,300 kg of gold produced from 1-m wide shafts and stream gravel. Grade varied from 10 to 30 g per meter of bedrock.	Reed (1913, p. 90-91); Martin (1925, p. 13-14)	82	(King Creek)	T. 30 N., R. 8 W.	As	Placer	P	A shaft, 22 m deep, found a "small" prospect.	Reed (1958, p. 41); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	82	(Quartz Creek)	T. 35 N., R. 7 W.	Co	Coating	P/A	Small amount of gold cutting chlorite schist. Contains quartz, pyrite, magnetite, and pyrrhotite.	Brough and Reiser (1964); Martin and Reiser (1973); ADGGS								
15	Chandalar Copper	T. 35 N., R. 7 W.	Co, Au, Ag, As	Vein	T	Eight lode claims staked in 1968 with reported prospecting as recently as 1973.	ADGGS	83	(Lake Creek)	T. 31 N., R. 9 W.	As	Placer	P	Prospects found in 1937.	Reed (1958, p. 41-42); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	83	(Rainbow Gulch)	T. 31 N., R. 11 W.	Au	Placer	P	Some gold prospects, but little mining.	Reed (1958, p. 50); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS	84	(Shangrala Creek)	T. 31 N., R. 7 W.	Au	Placer	P	Good prospects reported in 1964.	Reed (1958, p. 58); Brough and Reiser (1964); Martin and Reiser (1973); ADGGS
16	(Chandalar River, North Fork)	T. 35 N., R. 5 W.	Au, Ag, (Pb)	Vein	O	Vein sample assayed																									